

Automotive Technology 7<sup>th</sup> Edition  
Chapter 58: Advanced Driver Assist Systems (ADAS)  
Short Answer Quiz

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. Describe the calibration process for radar and cameras in advanced driver assist systems.

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2. How does an automatic braking system warn the driver of a potential collision? List all the methods mentioned in the document.

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3. Explain the limitations of a parking-assist system in detecting certain types of objects.

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4. Differentiate between the functions of a lane departure warning system and a lane keep assist system.

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5. What is the typical behavior of the brakes when the hill start assist system is activated, and why might a driver perceive this as an issue?

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Name: \_\_\_\_\_ Date: \_\_\_\_\_

6. List the various names or terminologies used to refer to adaptive cruise control systems as mentioned in the document.

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7. Explain the purpose and functionality of the rear cross-traffic alert system. What sensors does it utilize?

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8. What specific conditions or obstructions can affect the proper operation of radar cruise control, and how can they be addressed?

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9. Describe the role of advanced driver assist systems in enhancing driver safety and convenience.

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10. How do self-parking vehicles determine the appropriate maneuvers for parking, and what systems do they control to achieve this?

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